

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/815,264

DATE: 12/27/2001

TIME: 16:08:06

Input Set : D:\Pa2_00329.txt

Output Set: N:\CRF3\12272001\I815264.raw

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1 <110> APPLICANT: Boukharov, Andrey A.
2 Cao, Yongwei
3 Dotson, Stanton B.
4 Koshi, Jeffrey M.
5 Kovalic, David K.
6 Liu, Jingdong
7 McIninch, James
8 Wu, Wei

10 <120> TITLE OF INVENTION: Genomic Plant Sequences And Uses Thereof
12 <130> FILE REFERENCE: 38-21(51237)G

C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/815,264
C--> 14 <141> CURRENT FILING DATE: 2001-03-23

14 <150> PRIOR APPLICATION NUMBER: US 09/620,392
15 <151> PRIOR FILING DATE: 2000-07-19
17 <150> PRIOR APPLICATION NUMBER: US 09/702,134
18 <151> PRIOR FILING DATE: 2000-10-31
20 <160> NUMBER OF SEQ ID NOS: 109669
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 1501
24 <212> TYPE: DNA
25 <213> ORGANISM: Oryza sativa
27 <400> SEQUENCE: 1

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33 gatgtgaccc ctgacgggtga attccccgtt gccatctcta aacactacaa atattttaaa 180
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41 gcgaagcaag cgcagccgct caggggtggg tggtcttttg gtggttagat cttttgtcct 420
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45 ggtcttatag gtgccggttc atttaaaacc gacacctata ggctttttcc aacctagctt 540
47 cgcactatga ataaaataaa gaatcgacac ctttaagcat tataagtacc agttctcaag 600
49 aaaaaccgat aacaataata tgagtgccag ttctagcaca aaaaccggta caaatattat 660
51 aggtgccggt ttttttaaaa gaaccgacac ctataatata aatatagggt cgggttctac 720
53 ttagaaaaaa ccgaccggtc gacgtcctta tccactcgca tctcttgatc ggtcgtctta 780
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59 aaggaggcag cggcagtggc cccttctcca gcggcggtc ccccttctc cttgcagcgg 960
61 taccttctcc cggtagcggg ggcggtgca aggagacagc ggcgggcgcc gcaaggaggc 1020
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65 gccaacgtca gcgagatgtc agcatgaaac ctaggcacag atgccatgct tcttccatgt 1140
67 tctcatgttg aaaattcatg ccaattattt ctatcacact caatgacgat tgcggcggcg 1200
69 aagcctgcaa ttaacactac atattgcctt gtgcagggtg tatcatcacc aattcaccat 1260
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77 gggtaaatta agtgactgta agctttgtta aacgccatgg atttgatgaa gagtaatccg 1500

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91 gcacttcccc tccccaggcc acaacctggg cttggggccag aaaagtggcc tcactctcga 120
93 tccctcttgg gctgatttcg gcttggacga caccgatcgt ccgatcttta gggttttgat 180
95 cggacggccg agcgtcgata tcggggaaac aaaacccctc cttctcctca gccgccgaaa 240
97 ccctagccca ttccctccc tcccatctca catcgccgcc ctccctccg cgccccgag 300
99 cggcgccgac ggcgctctc ttcccgag cggcgccggc ggcgccctcc cccacaacca 360
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113 gagaggtggc ggcacgtct cttctctct ctctgtgaat ggtgtcggtt ctctgtgga 780
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119 cggttttttt tcaccgggtt tttttgacgg acgatggaag caccctttat tttttaagta 960
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123 aaacttaagt aagtgggtgt gaagaataag gaaacatgca cacttttaac tccccccccc 1080
125 ccaacaagaa aagagagctt tactaccca aatacctata tgcattgcatg caaacccaat 1140
127 tttcatgctt agatgtagta actaaccaa taatcataaa taatcaactt gaaatttttg 1200
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131 tgtgcggcaa ggccgcctct attttctagt aattaattat tccaaaatta gagatacaat 1320
133 aaaacgcttt atccaaacgg cgtcgggtgac gccaacgaca ctggttggag ttggacacgc 1380
135 cgacccca cgcagcgaca cacaacggc ggggattact tcgccgttaa ggcgtacact 1440
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145 <213> ORGANISM: Oryza sativa
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155 ttttgggtgc ttcaccttct caaatatcaa ctgaaatata aaaatttcta catccagttt 240
157 agttgacctt cagttattag ttattaggat aaaaatataa atatacttat acaaatatgc 300
159 gctagtatat tttcaaaata agtacttaaa aattgaattt attgaaaaaa tactccaaat 360
161 aattaagttg tcacataact ttttaattta ttgtatcaaa atcgtaacct tcttgcaagt 420
163 tgttgatatt atacaatcac ttataaagtt tttatactaa attgcacctc cctgccaagt 480
165 tattgtgcta gaatgctaatt ttcttaagtt attataccaa attgcaccca cctgccaagt 540
167 tgatgcacca tggatgcaat ttactcttga tattttttgg gtgagaatgt ggaggggtat 600
169 actcaccacc tctaataaaa ggggtgattgc aaccactcat ccatcccaact ccccaacca 660
171 aacaaaaaaa atggattacc atatccactt tcatccctac aaccaagggt gtgttttagtt 720

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173 cacacccaaaa ttgaaagttt ggttgaaatt ggaacaatgt gacggaaaag ttaaaaaattt 780
175 atgtgtgtag gaaagttttg atgtgatgaa aaagtttagaa gtttgaagaa aaagtttgga 840
177 actaaacaag gcccaaacaa aaaactggat cgccatattc actcaaaaaa aaaactggat 900
179 cgccatatcc agcaaaatat ggaccgccat atcccatcca accttgaccg ggagccaaac 960
181 acaccgtcag gatggaagag gctccaacct tctcaaataa atgctgcctt aggagttagg 1020
183 tctgatttat ggttttagttc ccaacttttt cttcaaactt tcaacttttc tgtcacatcg 1080
185 tttcaatttc aatcaaattt tcaatttttg cgtgaactaa acacaccatt acaggtctcg 1140
187 aaaccacgta caaactgggt aagtgtttta aaaatatatt taaaaatcga attctaacaa 1200
189 attttattga atttcgtggt tagagttgta ttcaacgacc agtggcgctc ctgtgcccga 1260
191 ccttcttgct cagcaagaag cccaagttgg gcctcaaaaag cccactgcgt gagctcctcc 1320
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203 <211> LENGTH: 1501

204 <212> TYPE: DNA

205 <213> ORGANISM: Oryza sativa

207 <400> SEQUENCE: 4

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213 tttggtgtga actaaacaca cccttggttg tagggatgaa agtggatatg gtaatccatt 180
215 ttttttgttt ggttggggga gtgggatgga tgagtgggtg caatcaccct ttcattagag 240
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223 aatacaacaa cttgcaagat aggtacgatt ttgatacaat aaattaaaaa gttatgtgac 480
225 aacttaatta tttggagtat tttttcaata aattcaattt ttaagtactt attttgaaaa 540
227 tatactagcg catatttgta taagtatat tatattttta tcctaataac taataactga 600
229 aggtcaacta aactggatgt agaaattttt atatttcagt tgataattga gaaggatgaag 660
231 accacaaaaa aaatcttaaa ggtaattgga tgtaaatgt actactatgt gtagtataat 720
233 aattcttaaa gattaaattt aatattataa ggtaatatcc atatgattac tatgcaataa 780
235 catactgaca tcgtaaaaaa aagctcacct agcatatggt tagccaagtt gatacatcaa 840
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243 aaataaataa aagggaagag agaaaaagga aaaaaaatct ttctcgaaat cgccggccgc 1080
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253 gcctccgcgc gacgcagctc tcggtgcctg cactgtcgtc atcgtcgggt ccagatcgtc 1380
255 gtcgtcgtca ccggcatgca tgaggcatta aatgtgtcga tgtttgatgt cgtggttctg 1440
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259 a 1501

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262 <210> SEQ ID NO: 5

263 <211> LENGTH: 1501

264 <212> TYPE: DNA

265 <213> ORGANISM: Oryza sativa

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267 <400> SEQUENCE: 5

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273 aaaaataaat aatatccaaa attagaaaaa ttaaaagaga gttcaagtag gaatacaatt 180
275 ttgaaacaac tgaaatctgt actattaaaa attgaagatg tttttgccgg tataaaaaaa 240
277 cagaaaaaaa ggagaaaaag aacttctatg taaaaaaa cgtccgactc cataaaaaaa 300
279 gtccgactat ctgtggagaa aaaaaggcaa gaaaaataa aaaaaagaga aaaaaaaact 360
281 tctaccgtat aaaaaataa aaagggtccga ttcctgtacg attgcctcga aaaaggactt 420
283 tttgtccgta atcttctctt ctcttctact tctactattt ttttaaaaga aacctctact 480
285 attataaaaa atttaagatg ttcttttgtc ggtatttttg tatgtcatcc gtgtatgagt 540
287 cggtttataa atttgttcgc ttttgaaaaa atatatatcc tttgagttga tttttaagtt 600
289 cgtccgcttt tggaaatata ggagtcgtat aaaaaaattc gcatgctgac tttagacaaa 660
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293 agtgaattaa gactaaaaa gttgtcaccg gttgcagcgc acgggctttt ctcttgaaaa 780
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322 <210> SEQ ID NO: 6

323 <211> LENGTH: 1501

324 <212> TYPE: DNA

325 <213> ORGANISM: Oryza sativa

327 <400> SEQUENCE: 6

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333 ccagagaaaa tggatattta gccatgttca aaacacgggt tcgctagaat gccatcccga 180
335 aaatgcgatt cgataaaatg ccaatatgaa gcgtgcgtct accgccactt tggcattttt 240
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367 agccgctttt tgaacgtggc caaatatcca ttttctcgtc aatgccacgg catgtttgag 1200
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371 gtcgaaatga aaatttccct tctagcgaag agaaggagaa gcacgcacgc agcacgtgaa 1320
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384 <212> TYPE: DNA

385 <213> ORGANISM: Oryza sativa

387 <400> SEQUENCE: 7

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393 cgtgtgcgga tttaggttga tgagaaaaaa taaagatgtt cgttattcaa accagatgtc 180
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435 ttataaaaacc ccgctcctc ccacctcctc tctctcctc tctcctcctc cttcgcgtcg 1440
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439 a

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444 <212> TYPE: DNA

445 <213> ORGANISM: Oryza sativa

447 <400> SEQUENCE: 8

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451 ggggacgtgt tcaccatgga gaaaaattca ccgcgtggtg atcggggcta gagaaattat 120
453 agccccgttg tagttgacgg gggcggggac agtgacatat tttcaccgtg gtgacgggga 180
455 cacgggcatg accccgacgg tgaattaacc attgccatct ctattaacac caga 234

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VERIFICATION SUMMARY

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DATE: 12/27/2001

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Input Set : D:\Pa2_00329.txt

Output Set: N:\CRF3\12272001\I815264.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:2697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:2703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:8774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154
L:8778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154
L:8782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154
L:12981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:228
L:13458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236
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L:24650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:434
L:24656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:434
L:27017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:475
L:29890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:524
L:30033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:526
L:30035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:526
L:30080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:527
L:30082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:527
L:30791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:539
L:30793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:539
L:30795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:539
L:30799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:539
L:30801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:539
L:36470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:641
L:36563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642
L:58444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1014
L:61993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1075
L:63986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1109
L:70605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1220
L:75168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1299
L:75383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1302
L:79378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1371
L:82013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1418
L:82206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1421
L:83565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445
L:83698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1447
L:94097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1629
L:98324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1704
L:101239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1756
L:103772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1800
L:104193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1807

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/815,264

DATE: 12/27/2001

TIME: 16:08:07

Input Set : D:\Pa2_00329.txt

Output Set: N:\CRF3\12272001\I815264.raw

L:106366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1849
L:106368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1849
L:111175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1932
L:111352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1935